

Appl. No. 10/048130
Reply to Office action of 2/7/2005

IN THE CLAIMS

Amendments To The Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A vehicle door structure, A bi-directionally curved vehicle window pane for slidable attachment to a motor vehicle comprising a door body and a vehicle window pane for slidable attachment to the door body, said vehicle window pane having an accurately curved vertical section wherein all vertical sections have with a single or a same radius of curvature that corresponds to a radius of curvature of a predetermined sliding movement path followed by said vehicle window pane, and a curved lateral section having a same curvature at every position thereof a compound curvature composed of a continuous sequence of a plurality of radii of curvature which are different from the single radius of curvature in the curved vertical section, wherein said vertical section is a section along a plane parallel to the predetermined sliding movement path while said lateral section is a section along a plane intersecting the predetermined sliding movement path substantially at right angles thereto, and the curvature of the curved vertical section and the curvature of the curved lateral section are different from each other.

2. (Canceled)
3. (Canceled)
4. (Canceled)
5. (Canceled)

Appl. No. 10/048130
Reply to Office action of 2/7/2005

6. (Canceled)

7. (Currently Amended) A The vehicle door structure comprising:

~~a bi-directionally curved vehicle window pane as recited in claim 1;~~

a as recited in claim 1 wherein said door body having has an attachment space for slidable attachment therein of said vehicle window pane and a pocket opening communicating with said attachment space for receiving said vehicle window pane for sliding movement in and out of said pocket opening with a substantially uniform clearance left between an outer peripheral surface of said vehicle window pane and an inner surface of said door body defining said pocket opening, said window pane being coincident in profile with the pocket opening at all locations of the sliding movement; and further comprising:

a pair of guide rails formed in opposed inner surfaces of said door body and having a same radius of curvature as the predetermined sliding movement path of said vehicle window pane, so as to guide the sliding movement of said vehicle window pane in and out of said pocket opening relative to said door body; and

a window regulator for sliding said vehicle window pane along said guide rails.

8. (Canceled)

9. (New) A vehicle door structure comprising:

a door body; and

a vehicle window pane for slidable attachment to the door body, said vehicle window pane having an arcuately curved vertical section with a single radius of curvature that corresponds to a radius of curvature of a predetermined sliding movement path followed by said vehicle window pane, and an arcuately curved lateral section with a

Appl. No. 10/048130
Reply to Office action of 2/7/2005

single radius of curvature which is different from the single radius of curvature of the curved vertical section;

wherein said vertical section is a section along a plane parallel to the predetermined sliding movement path while said lateral section is a section along a plane intersecting the predetermined sliding movement path substantially at right angles thereto; and

wherein said door body has an attachment space for slidable attachment therein of said vehicle window pane and a pocket opening communicating with said attachment space for receiving said vehicle window pane for sliding movement in and out of said pocket opening with a substantially uniform clearance left between an outer peripheral surface of said vehicle window pane and an inner surface of said door body defining said pocket opening, said window pane being coincident in profile with the pocket opening at all locations of the sliding movement; and further comprising:

a pair of guide rails formed in opposite inner surfaces of said door body and having a same radius of curvature as the predetermined sliding movement path of said vehicle window pane, so as to guide the sliding movement of said vehicle window pane in and out of said pocket opening relative to said door body; and

a window regulator for sliding said vehicle window pane along said guide rails.